

Title (en)
HERBICIDE TARGET GENES AND METHODS

Title (de)
ZIELGEN EINES HERBIZIDS UND VERFAHREN

Title (fr)
GENES CIBLES D'HERBICIDE ET PROCEDES CORRESPONDANTS

Publication
EP 1159434 A2 20011205 (EN)

Application
EP 00910776 A 20000303

Priority

- EP 0001884 W 20000303
- US 26338599 A 19990305
- US 30903699 A 19990510
- US 32766299 A 19990608
- US 40819699 A 19990929

Abstract (en)
[origin: WO0053782A2] The invention relates to genes isolated from Arabidopsis that code for proteins essential for normal plant development. The invention also includes the methods of using these proteins to discover new herbicides, based on the essentiality of the genes for normal growth and development. The invention can also be used in a screening assay to identify inhibitors that are potential herbicides. The invention is also applied to the development of herbicide tolerant plants, plant tissues, plant seeds, and plant cells.
[origin: WO0053782A2] The invention relates to genes isolated from *Arabidopsis* that code for proteins essential for normal plant development. The invention also includes the methods of using these proteins to discover new herbicides, based on the essentiality of the genes for normal growth and development. The invention can also be used in a screening assay to identify inhibitors that are potential herbicides. The invention is also applied to the development of herbicide tolerant plants, plant tissues, plant seeds, and plant cells.

IPC 1-7
C12N 15/82; **C12N 15/29**; **C12N 15/54**; **C12N 15/55**; **C12N 15/61**; **C12N 9/90**; **C07K 14/415**; **C12N 9/10**; **C12N 9/14**; **C12N 5/10**; **G01N 33/53**; **A01H 5/00**

IPC 8 full level
C07K 14/415 (2006.01); **C12N 9/10** (2006.01); **C12N 9/14** (2006.01); **C12N 9/90** (2006.01); **C12N 15/29** (2006.01); **C12N 15/54** (2006.01); **C12N 15/55** (2006.01); **C12N 15/61** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)
C07K 14/415 (2013.01); **C12N 9/1029** (2013.01); **C12N 9/14** (2013.01); **C12N 9/90** (2013.01); **C12N 15/8274** (2013.01)

Citation (search report)
See references of WO 0053782A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0053782 A2 20000914; **WO 0053782 A3 20001221**; AU 3286500 A 20000928; EP 1159434 A2 20011205

DOCDB simple family (application)
EP 0001884 W 20000303; AU 3286500 A 20000303; EP 00910776 A 20000303